LISTING OF CLAIMS:

Claims 1 and 2 (Previously cancelled)

Claim 3 (Currently amended): ~~The~~ A surface-modified, pyrogenically produced oxides doped by aerosol, characterized in that the oxides are selected from the group consisting of SiO_2, Al_2O_3, TiO_2, B_2O_3, ZrO_2, In_2O_3, ZnO, Fe_2O_3, Nb_2O_5, V_2O_5, WO_3, SnO_2 and GeO_2, wherein the surface-is modified with one or several compounds selected from the following groups:

a) Organosilanes having either formula $(RO)_3Si(C_nH_{2n+1})$ or $(RO)_3Si(C_nH_{2n-1})$, wherein

R = alkyl, and

n = 1 – 20;

b) Organosilanes having either formula $R'_x(RO)_ySi(C_nH_{2n+1})$ or $(RO)_3Si(C_nH_{2n+1})$, wherein

R = alkyl,

R' = alkyl,

R' = cycloalkyl

n = 1 – 20,

x+y = 3,

x = 1, or 2, and

y = 1, or 2;

c) Halogen organosilanes having either formula X_3 $Si(C_nH_{2n+1})$ or X_3 $Si(C_nH_{2n-1})$, wherein

X = Cl, or Br, and

n = 1 – 20;

d) Halogen organosilanes having either formula X_2 (R') $Si(C_nH_{2n+1})$ or

X_2 (R') $Si(C_nH_{2n-1})$, wherein

X = Cl, or Br

R' = alkyl ~~and~~ or cycloalkyl, and

n = 1 – 20;

e) Halogen organosilanes having formula X $(R')_2$ $Si(C_nH_{2n+1})$ or

X $(R')_2$ $Si(C_nH_{2n-1})$, wherein

X = Cl, or Br;

R' = alkyl or ~~and~~ cycloalkyl, and

n = 1 – 20;

f) Organosilanes having the formula $(RO)_3Si(CH_2)_m$-R'

R = alkyl,

m = 0, or 1-20, and

R' = methyl-, aryl-, $-C_6H_5$, substituted phenyl groups,

-C_4F_9, OCF_2-CHF-CF_3, -C_6F_{13}, -O-CF_2-CHF_2,

-NH_2, =N_3, -SCN, -CH=CH_2, -NH- CH_2-CH_2-NH_2,

-N-(CH_2-CH_2-CH_2NH_2)$_2$,

-OOC(CH_3)C = CH_2,

-OCH_2-CH(O) CH_2,

-NH-CO-N-CO- $(CH_2)_5$,

-NH-COO-CH_3, -NH-COO-CH_2-CH_3, -NH-$(CH_2)_3Si(OR)_3$,

~~-S_x-$(CH_2)_3Si(OR)_3$, where x is 0, one or more,~~

-SH, or

-NR'R''R''', wherein R' = alkyl, or aryl; R'' = H, alkyl, aryl; and R''' = H, alkyl, aryl, benzyl, or $C_2H_4N(R'''')_2$, wherein R'''' = H, or alkyl;

g) Organosilanes having the formula $(R'')_x$ $(RO)_y$ $Si(CH_2)_m$-R', wherein

R'' = alkyl, or cycloalkyl,

x+y = 2,

x = 1, or 2,

y = 1, or 2,

m = 0, or 1 to 20, and

R' = methyl-, aryl, -C_6H_5, substituted phenyl groups,

-C_4F_9, -OCF_2-CHF-CF_3, -C_6F_{13}, -O-CF_2-CHF_2,

-NH_2, -N_3, SCN, -CH= CH_2, -NH-CH_2-CH_2-NH_2,

-N-(CH_2-CH_2-NH_2)$_2$,

-OOC $(CH_3)C = CH_2$,

$-OCH_2-CH(O)\ CH_2$,

$-NH-CO-N-CO-(CH_2)_5$,

$-NH-COO-CH_3$, $-NH-COO-CH_2-CH_3$, $-NH-(CH_2)_3Si(OR)_3$,

~~$-S_x-(CH_2)_3Si(OR)_3$, where x is 0, one or more,~~ or -SH , or

-NR'R''R''', wherein R' = alkyl, or aryl; R'' = H,

alkyl, or aryl; and R''' = H, alkyl, aryl, benzyl, or

$C_2H_4N(R'''')_2$, wherein R'''' = H, or alkyl ;

h) Halogen organosilanes having the formula $X_3Si\ (CH_2)_m-R'$, wherein

X = Cl, or Br,

m = 0, 1 – 20,

R' = methyl-, aryl, $-C_6H_5$, substituted phenyl groups

$-C_4F_9$, $-OCF_2-CHF-CF_3$, $-C_6F_{13}$, $-O-CF_2-CHF_2$,

$-NH_2$, $-N_3$, SCN, $-CH=CH_2$, $-NH-CH_2-CH_2-NH_2$,

$-N-(CH_2-CH_2-NH_2)_2$,

-OOC $(CH_3)C = CH_2$,

$-OCH_2-CH(O)\ CH_2$,

$-NH-CO-N-CO-(CH_2)_5$,

$-NH-COO-CH_3$, $-NH-COO-CH_2-CH_3$, $-NH-(CH_2)_3Si(OR)_3$,

~~$-S_x-(CH_2)_3Si(OR)_3$, where x is 0, one or more,~~ or

-SH;

i) Halogen organosilanes having the formula $(R)X_2Si(CH_2)_m$-R', wherein

X = Cl, or Br,

R = alkyl such as methyl-, ethyl-, or propyl-,

m = 0, or 1 – 20, and

R' = methyl-, aryl- , $-C_6H_5$, substituted phenyl groups,

$-C_4F_9$, $-OCF_2-CHF-CF_3$, $-C_6F_{13}$, $-O-CF_2-CHF_2$,

$-NH_2$, $-N_3$, SCN, $-CH=CH_2$, $-NH-CH_2-CH_2-NH_2$,

$-N-(CH_2-CH_2-NH_2)_2$,

$-OOC\ (CH_3)C = CH_2$,

$-OCH_2-CH(O)\ CH_2$,

$-NH-CO-N-CO-(CH_2)_5$,

$-NH-COO-CH_3$; $-NH-COO-CH_2-CH_3$,

$-NH-(CH_2)_3Si(OR)_3$,

~~$-S_x-(CH_2)_3Si(OR)_3$, where x is 0, one or more,~~ or

-SH;

(j) Halogen organosilanes having the formula $(R)_2X\ Si(CH_2)_m$-R', wherein

X = Cl, or Br,

R = alkyl,

m = 0, or 1 – 20, and

R' = methyl-, aryl-, $-C_6H_5$, substituted phenyl groups,

$-C_4F_9$, $-OCF_2-CHF-CF_3$, $-C_6F_{13}$, $-O-CF_2-CHF_2$,

$-NH_2$, $-N_3$, SCN, $-CH=CH_2$, $-NH-CH_2-CH_2-NH_2$,

$-N-(CH_2-CH_2-NH_2)_2$,

$-OOC\ (CH_3)C = CH_2$,

$-OCH_2-CH(O)\ CH_2$,

$-NH-CO-N-CO-(CH_2)_5$,

$-NH-COO-CH_3$, $-NH-COO-CH_2-CH_3$, $-NH-(CH_2)_3Si(OR)_3$,

~~$-S_x-(CH_2)_3Si(OR)_3$, where x is 0, one or more,~~ or

-SH;

(k) Silazanes having the formula

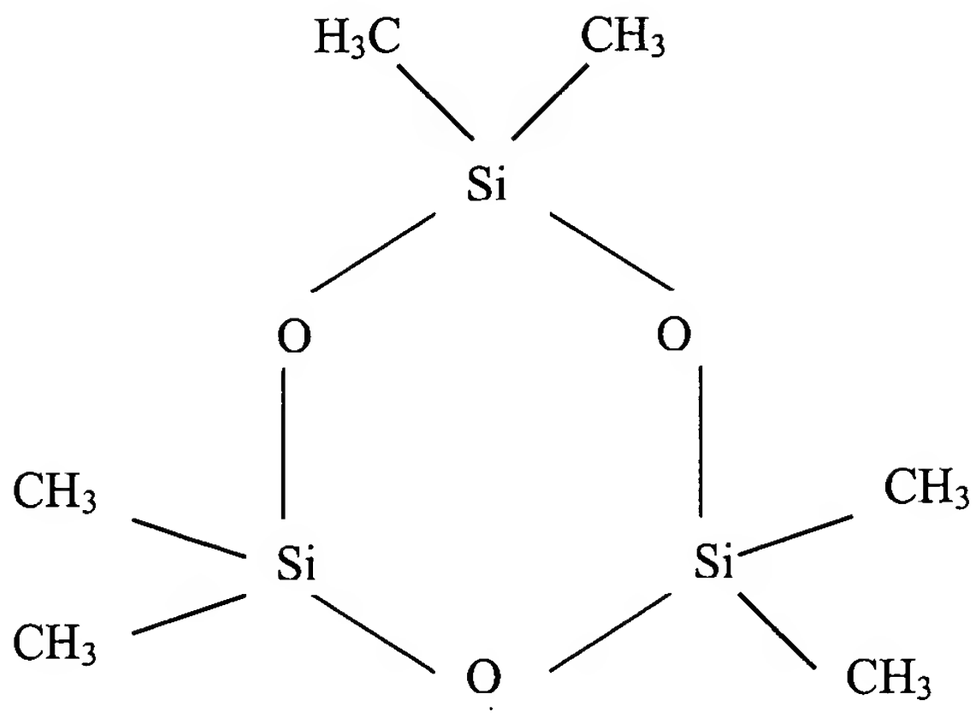
$$R'R_2Si-\underset{\displaystyle H}{\underset{|}{N}}-SiR_2R'$$

wherein R = alkyl, and

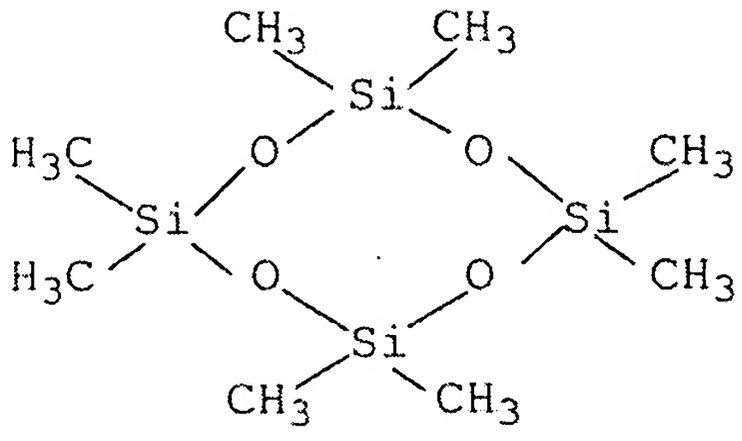
R' = alkyl, or vinyl; or

(l) Cyclic polysiloxanes D 3, D 4 or D 5,

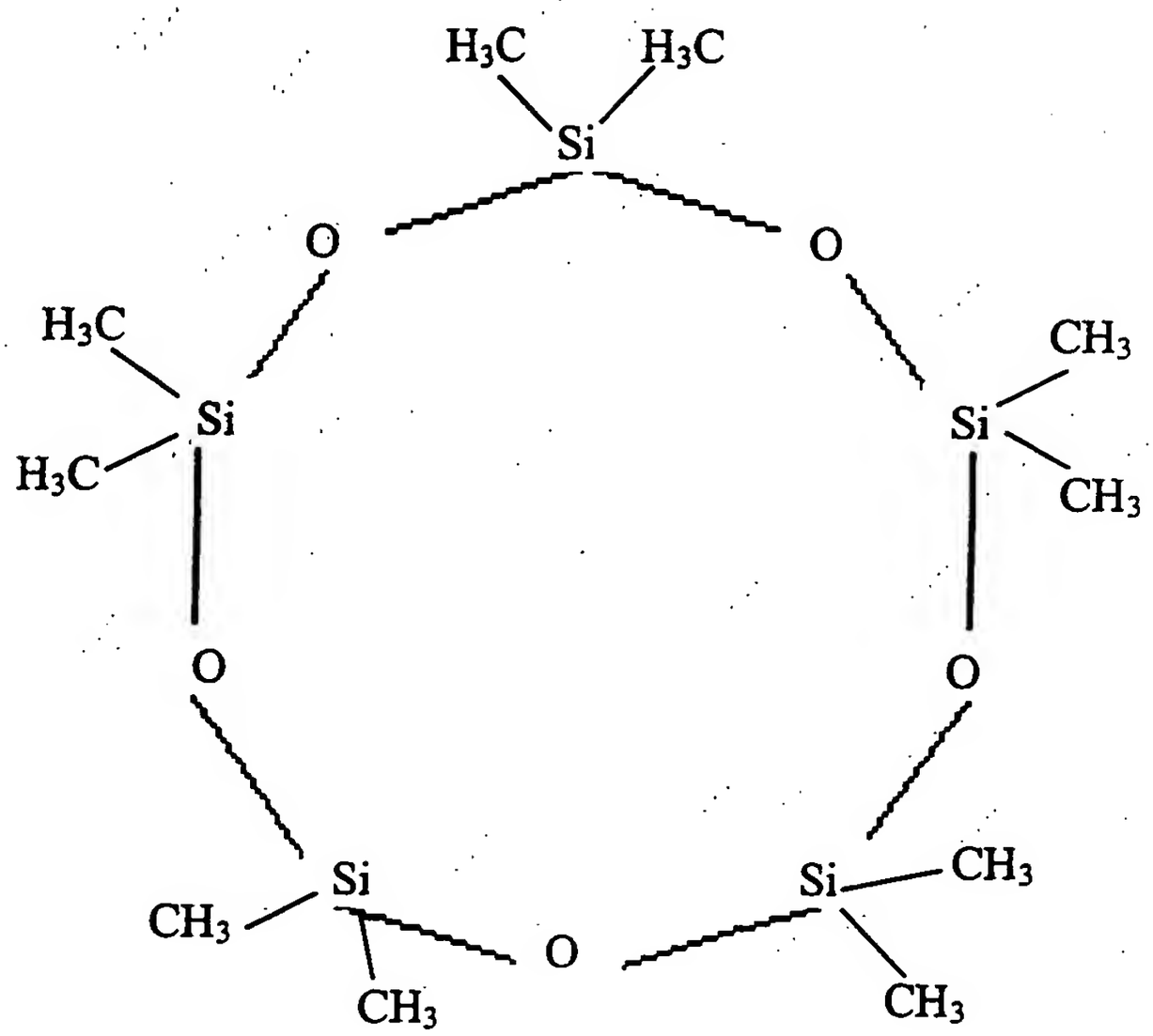
where 1) D3 has the formula:



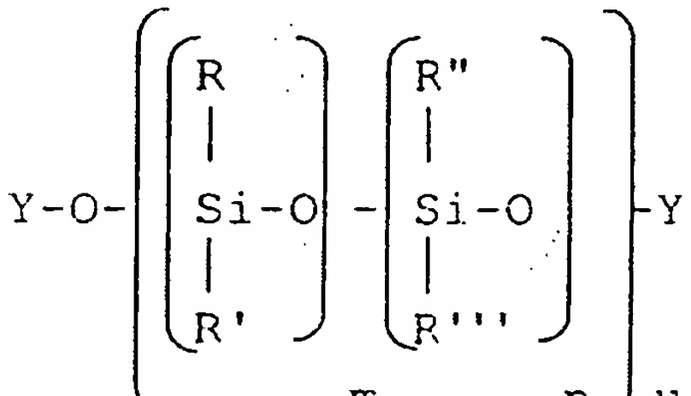
2) D4 has the formula:



and 3) D5 has the formula:



m) Polysiloxanes or silicone oils having any one of the formula



m = 0,1,2,3,...∞
n = 0,1,2,3,...∞
u = 0,1,2,3,...∞

Y=CH_3, H, C_nH_{2n+1}
[[Y=]]$Si(CH_3)_3$, Si $(CH_3)_2H$

, $Si(CH_3)_2OH$, $Si(CH_3)_2$ (OCH_3) , or

$Si(CH_3)_2$ (C_nH_{2n+1}), wherein n=1-20,

wherein,

R = alkyl, aryl, $(CH_2)_n$-NH_2, or H,

R' = alkyl, aryl, $(CH_2)_n$-NH_2, or H,

R'' = alkyl, aryl, $(CH_2)_n$-NH_2, or H,

R'''= alkyl, aryl, $(CH_2)_n$-NH_2, or H.

Claim 4 (Previously presented): A method of producing the surface-modified oxides in accordance with claim 3, comprising placing pyrogenically produced oxides doped by aerosol in a suitable mixing container, spraying the oxides under intensive mixing with the surface-modification reagent or a mixture of several surface-modification reagents.

Claim 5 (Previously presented): In a reinforcing filler composition wherein the improvement comprises the surface-modified oxides according to claim 3 as reinforcing filler.

Claim 6 (Original) The method of claim 4 wherein the spraying step includes spraying with water and/or acid prior to the spraying with the surface-modification reagent or a mixture of several surface-modification reagents.

Claim 7 (Original) The method of claim 4 further comprising re-mixing at 15 to 30 minutes and tempering at a temperature of 100 to 400 °C for a period of 1 to 6 hours.

Claim 8 (Previously presented) The surface-modified, pyrogenically produced oxides according to claim 3 wherein the cyclic polysiloxanes is D 4.

Claim 9 (Cancelled)